

LITTLE COLORADO RIVER BASIN

09396400 DEAD WASH TRIBUTARY NEAR HOLBROOK, AZ

LOCATION.--Lat 35°04'20", long 109°44'56", in S¹/₂, sec.1, T.19 N., R.24 E., Apache County, Hydrologic Unit 15020007, at U.S.Highway 66, near east edge of Petrified Forest National Monument, and 26 mi northeast of Holbrook.

DRAINAGE AREA.--1.22 mi².

Annual peak discharges

| Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes | Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1963 | 09-00-63 | 210 | | 1970 | 09-05-70 | 340 | |
| 1964 | 08-12-64 | 130 | | 1971 | 08-23-71 | 526 | |
| 1965 | 09-04-65 | 307 | | 1972 | 09-09-72 | 377 | |
| 1966 | 12-21-65 | 142 | | 1973 | 10-19-72 | 180 | |
| 1967 | 08-00-67 | 743 | | 1974 | 07-00-74 | 30 | ES |
| 1968 | 03-00-68 | 73 | | 1975 | 10-29-74 | 138 | |
| 1969 | 10-03-68 | 94 | | | | | |

Magnitude and probability of instantaneous peak flow based on period of record 1963-75

| Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent | | | | | |
|--|----------|------|-----|-----|-------|
| 2 | 5 | 10 | 25 | 50† | 100† |
| 50% | 20% | 10% | 4% | 2% | 1% |
| 198 | 374 | 522 | 745 | 938 | 1,150 |
| Weighted skew | (logs) = | 0.01 | | | |
| Mean | (logs) = | 2.30 | | | |
| Standard dev. | (logs) = | 0.33 | | | |

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour | |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
| | | | | | | 2-year (in) | 50-year (in) |
| 60.0 | 1.8 | 5,740 | 0.0 | 3.0 | 7.9 | 1.3 | 2.6 |

